

STN Search Summary
09/991448

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FILE 'CAPLUS' ENTERED AT 11:04:45 ON 09 OCT 2003
L1 9 S OLEP
L2 12758 S MONOOXYGENASE
L3 4 S L2 AND L1 AND POLYKETIDE
L4 61 S (L2 OR L1) AND POLYKETIDE
L5 46 S L4 AND (POLYKETIDE SYNTHASE)
L6 43 S L5 NOT L1

=> d 11 1-9

L1 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:371787 CAPLUS
TI Parallel pathways for oxidation of 14-membered polyketide macrolactones in Saccharopolyspora erythraea
AU Gaisser, Sabine; Lill, Rachel; Staunton, James; Mendez, Carmen; Salas, Jose; Leadlay, Peter F.
CS Biotica Technology Limited, Cambridge, UK
SO Molecular Microbiology (2002), 44(3), 771-781

L1 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:373086 CAPLUS
TI Cloning, characterization and heterologous expression of a polyketide synthase and P-450 oxidase involved in the biosynthesis of the antibiotic oleandomycin
AU Shah, Sanjay; Xue, Qun; Tang, Li; Carney, John R.; Betlach, Mary; McDaniel, Robert
SO Journal of Antibiotics (2000), 53(5), 502-508

L1 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:765254 CAPLUS
TI Analysis of a Streptomyces antibioticus chromosomal region involved in oleandomycin biosynthesis, which encodes two glycosyltransferases responsible for glycosylation of the macrolactone ring
AU Olano, C.; Rodriguez, A. M.; Michel, J. M.; Mendez, C.; Raynal, M. C.; Salas, J. A.
SO Molecular & General Genetics (1998), 259(3), 299-308

L1 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1995:448846 CAPLUS
TI A cytochrome P450-like gene possibly involved in oleandomycin biosynthesis by Streptomyces antibioticus
AU Rodriguez, Ana Maria; Olano, Carlos; Mendez, Carmen; Hutchinson, C. Richard; Salas, Jose A.
SO FEMS Microbiology Letters (1995), 127(1-2), 117-20

L6 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:697017 CAPLUS
TI An oxygen-limited cultivation method for producing polyketides by myxobacteria with polyketide congener distribution modulation
SO PCT Int. Appl., 36 pp.

L6 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:656325 CAPLUS
TI The *Streptomyces globisporus* gene cluster for biosynthesis of the enediyne antitumor antibiotic C-1027 and the generation of novel variants
SO U.S. Pat. Appl. Publ., 119 pp., Cont.-in-part of U.S. Ser. No. 159,257.

L6 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:929603 CAPLUS
TI Heterologous expression of the naphthocyclinone hydroxylase gene from *Streptomyces arenae* for production of novel hybrid polyketides
SO Antonie van Leeuwenhoek (2001), 79(3-4), 235-245

L6 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:864570 CAPLUS
TI Characterization of Four Clustered and Coregulated Genes Associated with Fumonisin Biosynthesis in *Fusarium verticillioides*
SO Fungal Genetics and Biology (2001), 34(3), 155-165

L6 ANSWER 16 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:764047 CAPLUS
TI Genome sequence of an industrial microorganism *Streptomyces avermitilis*: deducing the ability of producing secondary metabolites
SO Proceedings of the National Academy of Sciences of the United States of America (2001), 98(21), 12215-12220

L6 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:761732 CAPLUS
DN 137:104419
TI Organization of biosynthetic gene cluster for avermectin in *Streptomyces avermitilis*: analysis of enzymatic domains in four polyketide synthases
SO Journal of Industrial Microbiology & Biotechnology (2001), 27(3), 170-176

L6 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:634532 CAPLUS
TI Nucleotide sequence and predicted functions of the entire *Sinorhizobium meliloti* pSymA megaplasmid
SO Proceedings of the National Academy of Sciences of the United States of America (2001), 98(17), 9883-9888

L6 ANSWER 19 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:505089 CAPLUS
TI Engineered biosynthesis of novel polyenes: a pimaricin derivative produced by targeted gene disruption in *Streptomyces natalensis*
SO Chemistry & Biology (2001), 8(7), 635-644

L6 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:158443 CAPLUS
TI Studies on the biosynthesis of epothilones: the PKS and epothilone C/D monooxygenase
SO Journal of Antibiotics (2001), 54(2), 144-148

- L6 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:51336 CAPLUS
TI Cloning, sequencing and analysis of the enterocin biosynthesis gene cluster from the marine isolate "Streptomyces maritimus": evidence for the derailment of an aromatic polyketide synthase
SO Chemistry & Biology (2000), 7(12), 943-955
- L6 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:900821 CAPLUS
TI Genes encoding enzymes in the biosynthesis of pimaricin in Streptomyces natalensis and the application for new biosynthetic molecules
SO PCT Int. Appl., 115 pp.
- L6 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:536440 CAPLUS
TI Biosynthesis of the polyene antifungal antibiotic nystatin in Streptomyces noursei ATCC 11455: analysis of the gene cluster and deduction of the biosynthetic pathway. [Erratum to document cited in CA133:318082]
SO Chemistry & Biology (2000), 7(7), R176
- L6 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:475677 CAPLUS
DN 133:101923
TI The Streptomyces globisporus gene cluster encoding enzymes of biosynthesis of the enediyne antitumor antibiotic C-1027
SO PCT Int. Appl., 160 pp.
CODEN: PIXXD2
- L6 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:446716 CAPLUS
TI Genetic localization and molecular characterization of the nonS gene required for macrotetrolide biosynthesis in Streptomyces griseus DSM40695
SO Antimicrobial Agents and Chemotherapy (2000), 44(7), 1809-1817
- L6 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:439427 CAPLUS
TI Biosynthesis of the polyene antifungal antibiotic nystatin in Streptomyces noursei ATCC 11455: analysis of the gene cluster and deduction of the biosynthetic pathway
SO Chemistry & Biology (2000), 7(6), 395-403
- L6 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:409167 CAPLUS
TI The FK520 gene cluster of Streptomyces hygroscopicus var. ascomyceticus (ATCC 14891) contains genes for biosynthesis of unusual polyketide extender units
SO Gene (2000), 251(1), 81-90
- L6 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:238448 CAPLUS
TI A DNA sequence encoding the genes of epothilone biosynthesis of Sorangium cellulosum
SO Ger. Offen., 36 pp.

- L6 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:9540 CAPLUS
TI New lessons for combinatorial biosynthesis from myxobacteria. The
myxothiazol biosynthetic gene cluster of *Stigmatella aurantiaca* DW4/3-1
SO *Journal of Biological Chemistry* (1999), 274(52), 37391-37399
- L6 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:764178 CAPLUS
TI Sequence and recombinant narbonolide polyketide synthase
applications from *Streptomyces venezuelae* for creation of useful
antibiotics
SO PCT Int. Appl., 98 pp.
CODEN: PIXXD2
- L6 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:548510 CAPLUS
TI Organization of the biosynthetic gene cluster for the polyketide
anthelmintic macrolide avermectin in *Streptomyces avermitilis*
SO *Proceedings of the National Academy of Sciences of the United States of*
America (1999), 96(17), 9509-9514
- L6 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:801707 CAPLUS
TI The granaticin biosynthetic gene cluster of *Streptomyces violaceoruber*
Tu22: sequence analysis and expression in a heterologous host
SO *Chemistry & Biology* (1998), 5(11), 647-659
- L6 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:624768 CAPLUS
TI Characterization of the macrolide P-450 hydroxylase from *Streptomyces*
venezuelae which converts narbomycin to picromycin
SO *Biochemistry* (1998), 37(42), 14937-14942
- L6 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1997:510207 CAPLUS
TI Effect of the Daunorubicin *dpsH* Gene on the Choice of Starter Unit and
Cyclization Pattern Reveals That Type II Polyketide
Synthases Can Be Unfaithful yet Intriguing
SO *Journal of the American Chemical Society* (1997), 119(31), 7392-7393
- L6 ANSWER 37 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1996:142742 CAPLUS
TI Organization of the biosynthetic gene cluster for rapamycin in
Streptomyces hygroscopicus: analysis of genes flanking the
polyketide synthase
SO *Gene* (1996), 169(1), 1-7
- L6 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1996:123412 CAPLUS
TI Twenty-five coregulated transcripts define a sterigmatocystin gene cluster
in *Aspergillus nidulans*
SO *Proceedings of the National Academy of Sciences of the United States of*
America (1996), 93(4), 1418-22

L6 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1995:745902 CAPLUS
TI Sterigmatocystin biosynthesis in *Aspergillus nidulans* requires a novel
type I polyketide synthase
SO *Journal of Bacteriology* (1995), 177(16), 4792-800

L6 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1995:597380 CAPLUS
TI Comparative mapping of aflatoxin pathway gene clusters in *Aspergillus parasiticus* and *Aspergillus flavus*
SO *Applied and Environmental Microbiology* (1995), 61(6), 2365-71

L6 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1994:211250 CAPLUS
TI Enzymic synthesis of a bacterial polyketide from acetyl and malonyl coenzyme A
SO *Science* (Washington, DC, United States) (1993), 262(5139), 1535-40

L6 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1994:128414 CAPLUS
TI The tcmVI region of the tetracenomycin C biosynthetic gene cluster of *Streptomyces glaucescens* encodes the tetracenomycin F1 monooxygenase, tetracenomycin F2 cyclase, and, most likely, a second cyclase
SO *Journal of Bacteriology* (1993), 175(23), 7571-80